

Vermont Mental Health Performance Indicator Project
Agency of Human Services, Department of Health, Division of Mental Health
108 Cherry Street, Burlington, Vermont 05402

TO: Vermont Mental Health Performance Indicator Project
Advisory Group and Interested Parties

FROM: John Pandiani and Joan Mongeon

DATE: June 30, 2006

RE: Patient Residence and Hospital Location

Our June 16 PIP on Regional Inpatient Behavioral Health Utilization prompted a number of requests for additional analysis. This week's PIP was prepared in response to a request from Nick Emlen (Vermont Council) regarding the relationship between patients' county of residence and the location of their hospitalization for behavioral health care. As in other recent inpatient reports, this analysis includes episodes of inpatient care to Vermont residents provided by hospitals in Vermont and New Hampshire. For a more detailed description of the data sources and the analysis, please refer to our June 2, 2006 report on Inpatient Behavioral Health Utilization during 2004 (<http://healthvermont.gov/mh/docs/pips/2006/pip060206.pdf>).

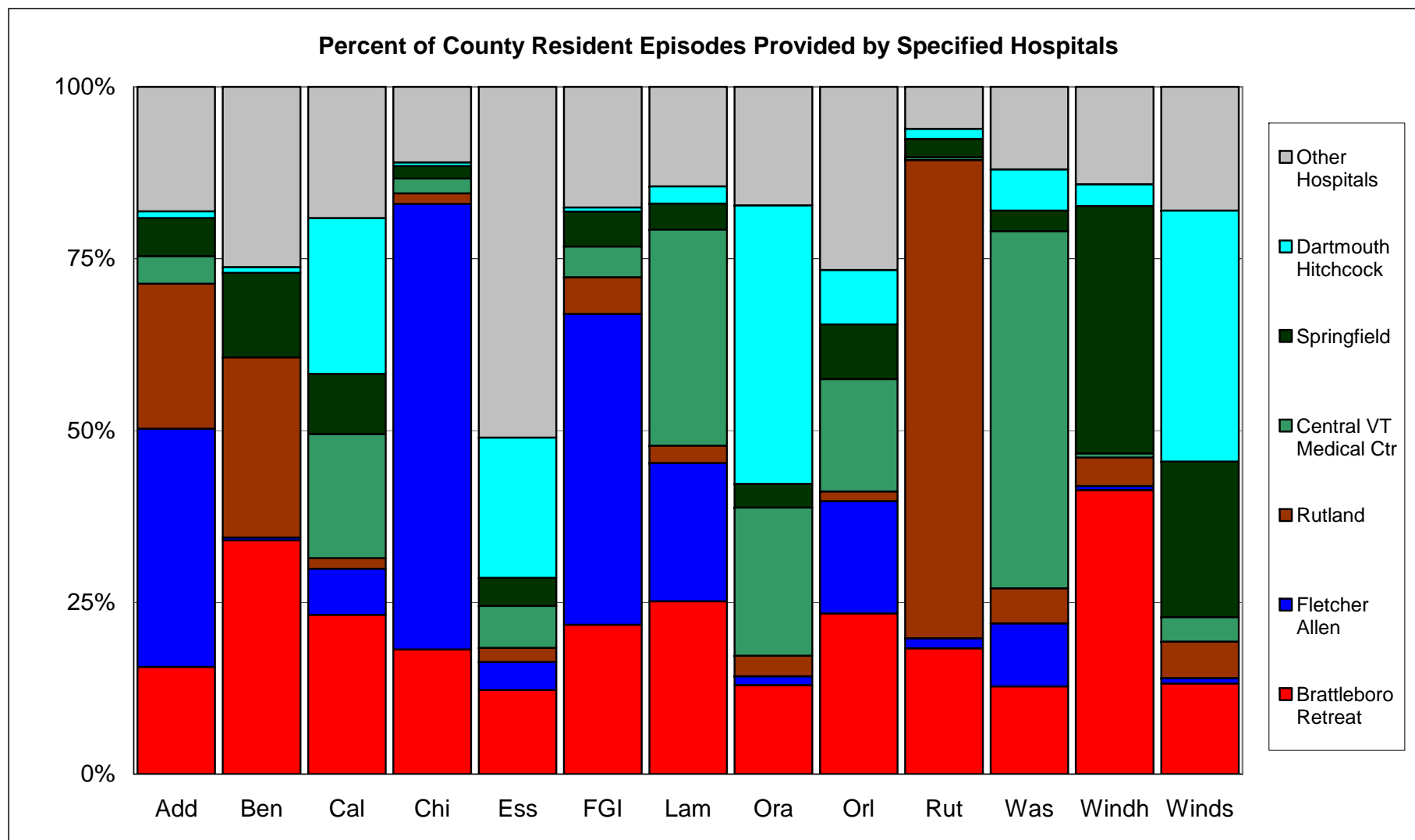
As you will see, choice of hospital was influenced but not determined by county of residence. The number of hospitals used by residents of individual Vermont counties varied from 15 different hospitals used by residents of Windham County and 14 different hospitals used by residents of Windsor County, to 9 different hospitals used by each of four counties (Addison, Bennington, Rutland and Washington).

Residents of Rutland County had the most concentrated utilization with 70% of all hospitalizations for behavioral health care being provided by Rutland Regional Medical Center, followed by Chittenden County with 65% at Fletcher Allen Health Care, and Washington County with 52% at Central Vermont Medical Center. The least concentrated utilization was by residents of Essex County with the most used hospitals (Dartmouth Hitchcock Medical Center and the Vermont Veterans' Hospital) accounting for only 20% each.

Seven different hospitals provided inpatient behavioral health care to individuals from every Vermont County during 2004. These include the Vermont State Hospital, the Brattleboro Retreat, Fletcher Allen Health Care, Rutland Regional Medical Center, Springfield Hospital, the Vermont Veterans' Hospital, and the Dartmouth Hitchcock Medical Center in New Hampshire.

We look forward to your interpretations of these findings and your suggestions for future analysis of this very rich data set to pip@vdh.state.vt.us or call 802-863-7249.

Episodes of Hospitalization for Behavioral Health Care Vermont Residents by County of Residence and Hospital: CY2004



Information is derived from the hospital discharge data set maintained by the Vermont Department of Health and database extracts provided by the Brattleboro Retreat and the Vermont State Hospital. Behavioral health care includes hospitalizations for mental health care and substance abuse. This analysis includes hospitalization of Vermont residents for behavioral health care that occurred in Vermont or New Hampshire.

**Episodes of Hospitalization for Behavioral Health Care
Vermont Residents by County of Residence and Hospital: CY2004**

Hospital	County of Residence														Total
	Add	Ben	Cal	Chi	Ess	FGI	Lam	Ora	Orl	Rut	Was	Windh	Winds	Unknown	
Brattleboro Retreat	31	83	45	178	6	73	40	30	50	138	68	210	82	10	1,044
Fletcher Allen	69	1	13	637	2	152	32	3	35	11	49	3	5		1,012
Rutland	42	64	3	15	1	18	4	7	3	524	27	21	33		762
Central VT Medical Ctr.	8		35	21	3	15	50	50	35	3	277	3	22		522
Springfield	11	30	17	18	2	17	6	8	17	20	16	183	141		486
Dartmouth Hitchcock (NH)	2	2	44	5	10	2	4	94	17	11	32	16	227		466
Other Hospitals															
VSH	11	15	7	73	1	28	12	8	19	11	40	14	19	19	277
VA--WRJ	7	9	10	29	10	11	2	19	11	33	23	15	59	4	242
Cheshire (NH)		1	1	1		2		2	5		1	18	10		41
Southwest VT		39										1			40
Other Hospitals (NH)			2	2	7			8	3			1	1		24
Porter	18			1						2					21
NE VT			16		1		2		1						20
North Country					2				18						20
Valley Regional (NH)				2				1				2	14		19
Northwestern						18									18
Bratt. Memorial												15			15
Copley			1				7								8
Gifford								2					4		6
Mt. Ascutney													4		4
Weeks (NH)					4										4
Monadnock (NH)												3	1		4
Grace Cottage												3			3
Total Other Hospitals	36	64	37	108	25	59	23	40	57	46	64	72	112	23	766
Total	199	244	194	982	49	336	159	232	214	753	533	508	622	33	5,058

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**Episodes of Hospitalization for Behavioral Health Care
Vermont Residents by County of Residence and Hospital: CY2004**

Hospital	% of County Resident Episodes Provided by Specified Hospitals													Total
	Add	Ben	Cal	Chi	Ess	FGI	Lam	Ora	Orl	Rut	Was	Windh	Winds	
Brattleboro Retreat	15.6%	34.0%	23.2%	18.1%	12.2%	21.7%	25.2%	12.9%	23.4%	18.3%	12.8%	41.3%	13.2%	20.6%
Fletcher Allen	34.7%	0.4%	6.7%	64.9%	4.1%	45.2%	20.1%	1.3%	16.4%	1.5%	9.2%	0.6%	0.8%	20.0%
Rutland	21.1%	26.2%	1.5%	1.5%	2.0%	5.4%	2.5%	3.0%	1.4%	69.6%	5.1%	4.1%	5.3%	15.1%
Central VT Medical Ctr.	4.0%		18.0%	2.1%	6.1%	4.5%	31.4%	21.6%	16.4%	0.4%	52.0%	0.6%	3.5%	10.3%
Springfield	5.5%	12.3%	8.8%	1.8%	4.1%	5.1%	3.8%	3.4%	7.9%	2.7%	3.0%	36.0%	22.7%	9.6%
Dartmouth Hitchcock (NH)	1.0%	0.8%	22.7%	0.5%	20.4%	0.6%	2.5%	40.5%	7.9%	1.5%	6.0%	3.1%	36.5%	9.2%
Other Hospitals														
VSH	5.5%	6.1%	3.6%	7.4%	2.0%	8.3%	7.5%	3.4%	8.9%	1.5%	7.5%	2.8%	3.1%	5.5%
VA--WRJ	3.5%	3.7%	5.2%	3.0%	20.4%	3.3%	1.3%	8.2%	5.1%	4.4%	4.3%	3.0%	9.5%	4.8%
Cheshire (NH)		0.4%	0.5%	0.1%		0.6%		0.9%	2.3%		0.2%	3.5%	1.6%	0.8%
Southwest VT		16.0%										0.2%		0.8%
Other Hospitals (NH)			1.0%	0.2%	14.3%			3.4%	1.4%			0.2%	0.2%	0.5%
Porter	9.0%			0.1%						0.3%				0.4%
NE VT			8.2%		2.0%		1.3%		0.5%					0.4%
North Country					4.1%				8.4%					0.4%
Valley Regional (NH)				0.2%				0.4%				0.4%	2.3%	0.4%
Northwestern						5.4%								0.4%
Bratt. Memorial												3.0%		0.3%
Copley			0.5%				4.4%							0.2%
Gifford								0.9%					0.6%	0.1%
Mt. Ascutney													0.6%	0.1%
Weeks (NH)					8.2%									0.1%
Monadnock (NH)												0.6%	0.2%	0.1%
Grace Cottage												0.6%		0.1%
Total Other Hospitals	18.1%	26.2%	19.1%	11.0%	51.0%	17.6%	14.5%	17.2%	26.6%	6.1%	12.0%	14.2%	18.0%	15.1%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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